Claims

- Ligament-tensioning device (1) for preparing for the implantation of a joint implant, with a base body (5),
 having a first claw (6) with a distal bearing surface (7) which rests on a first bone, and a second claw (13) which rests, with a proximal bearing surface (10), against a second bone, the second claw (13) being displaceable parallel to the first claw (6), characterised in that a cutting jig (2) can be placed onto mounts (4) of the base body (5) of the ligament-tensioning device (1).
- Ligament-tensioning device according to Claim 1, characterised in that the cutting jig (2) has projections
 (30) of U-shaped design with slots (31).
 - 3. Ligament-tensioning device according to Claim 2, characterised in that the projections (30) of the cutting jig (2) can be brought into engagement with the mounts (4).
 - 4. Ligament-tensioning device according to one of Claims 1 to 3, characterised in that the cutting jig (2) can be fixed to the mounts by means of a locking element (3).

- 25 5. Ligament-tensioning device according to one of Claims 1 to 4, characterised in that the mounts (4) comprise catches (32).
- 6. Ligament-tensioning device according to Claim 5, 30 characterised in that the catches (32) are equidistant.

- 7. Ligament-tensioning device according to Claim 5 or 6, characterised in that the cutting jig (2) is displaceable on the mounts (4) in a catching manner.
- 5 8. Ligament-tensioning device according to one of Claims 1 to 7, characterised in that the first claw (6) and the second claw (13) are displaceable parallel to one another by means of a parallel-displacement device (12).
- 9. Ligament-tensioning device according to Claim 8, characterised in that a first scale (33) is provided on a component (35) connecting the second claw (13) to the parallel-displacement device (12).
- 15 10. Ligament-tensioning device according to Claim 8, characterised in that a second scale (34) is provided on the base body (5).
- 11. Ligament-tensioning device according to Claim 10,
 20 characterised in that the scales (33; 34) can be brought
 into coincidence so that the height of an implant to be
 inserted into the joint to be treated can be preset.
- 12. Ligament-tensioning device according to one of Claims
 25 1 to 11, characterised in that the cutting jig (2) has a
 cylindrical guide (36).
- 13. Ligament-tensioning device according to Claim 12, characterised in that an aligning jig (48) can be introduced into the cylindrical guide (36).

- 14. Ligament-tensioning device according to Claim 13, characterised in that the aligning jig (48) can be fixed to the second bone by means of a bone nail (51).
- 5 15. Ligament-tensioning device according to one of Claims 1 to 14, characterised in that the cutting jig (2) has a saw quide (37).
- 16. Ligament-tensioning device according to one of Claims
 10 1 to 15, characterised in that a drilling jig (53) can be
 fitted onto the ligament-tensioning device (1).
 - 17. Ligament-tensioning device according to Claim 16, characterised in that the drilling jig (53) can be placed onto the mounts (4) of the base body (5).
- 18. Ligament-tensioning device according to one of Claims
 1 to 17, characterised in that the ligament-tensioning
 device (1) is designed as a bilateral ligament-tensioning
 20 device (1).
 - 19. Ligament-tensioning device according to Claim 18, characterised in that the ligament-tensioning device (1) has a force indicator (25).

- 20. Procedure for preparing a joint for the implantation of a joint implant by means of a ligament-tensioning device
- (1) with cutting jig (2), the ligament-tensioning device
- (1) comprising a base body (5), having a first claw (6)
- with a distal bearing surface (7) which rests on a first bone, and a second claw (13) which rests, with a proximal bearing surface (10), against a second bone, the second claw (13) being displaceable parallel to the first claw

- (6), and the cutting jig (2) being able to be placed onto mounts (4) of the base body (5) of the ligament-tensioning device (1), with the following procedure steps:
- carrying out a distal femur osteotomy while simultaneously tensioning the ligaments by means of the ligament-tensioning device (1),
 - carrying out a dorsal femur osteotomy while simultaneously tensioning the ligaments by means of the ligament-tensioning device (1), and
- 10 carrying out femoral oblique cuts while simultaneously tensioning the ligaments by means of the ligamenttensioning device (1).
- 21. Procedure according to Claim 20, characterised in that 15 the joint implant is a knee joint implant which is implanted into the tibia (40) and the femur (38).
- 22. Procedure according to Claim 20 or 21, characterised in that the first procedure step comprises the following 20 substeps:
 - premounting the cutting jig (2) on the ligamenttensioning device (1),
 - setting the desired thickness of the implant,
- introducing the ligament-tensioning device (1) into the knee joint gap (43),
 - spreading the ligament-tensioning device (1) with a predetermined force,
 - introducing a feeler gauge (45) into a saw guide (37) of the cutting jig (2),
- 30 checking the distal femur cutting path,
 - carrying out the distal femur osteotomy by means of a saw (47) passed through the saw guide (37) of the cutting jig (2),

- removing the ligament-tensioning device (1) from the knee joint gap (43),
- demounting the cutting jig (2),
- reintroducing the ligament-tensioning device (1) into the knee joint gap (43), and
- checking the width of the knee joint gap (43) by means of scales (33, 34) present on the ligament-tensioning device (1).
- 10 23. Procedure according to one of Claims 20 to 22, characterised in that the second procedure step comprises the following substeps:
 - flexing the leg,

- premounting the cutting jig (2) on the ligament-
- tensioning device (1),
 - introducing the ligament-tensioning device (1) into the knee joint gap (43),
 - spreading the ligament-tensioning device (1) with a predetermined force,
- 20 pushing the aligning jig (48) for the dorsal femur cut into a cylindrical guide (49) of the cutting jig (2),
 - displacing the aligning jig (48) up against the distal femur surface (50),
 - adjusting the lower leg until the aligning jig (48)
- rests evenly against the distal femur surface (50),
 - fixing the aligning jig (48) to the distal femur surface (50) by means of a bone nail (51),
 - dorsal femur osteotomy,
 - removing the bone nail (51),
- removing the ligament-tensioning device (1) from the knee joint gap (43),
 - demounting the cutting jig (2),
 - removing the dorsal osteophytes,

- reintroducing the ligament-tensioning device (1) into the knee joint gap (43), and
- checking the width of the knee joint gap (43) by means of scales (33, 34) present on the ligament-tensioning device (1).
- 24. Procedure according to one of Claims 20 to 23, characterised in that the third procedure step comprises the following substeps:
- 10 mounting a drilling jig (53) for an oblique-cutting jig (57) as far as it will go on the ligament-tensioning device (1),

- introducing the ligament-tensioning device (1) into the knee joint gap (43),
- 15 pushing two drilling sleeves (54) through the drilling jig (53) up to the distal femur surface (50),
 - spreading the ligament-tensioning device (1) with a predetermined force,
- pushing the aligning jig (48) for the dorsal femur cut
 into a cylindrical guide (55) of the drilling
 jig (53),
 - displacing the aligning jig (48) up against the distal femur surface (50),
 - adjusting the lower leg until the aligning jig (48)
- rests evenly against the distal femur surface (50),
 - drilling two holes (56) in the distal femur surface (50),
 - removing the ligament-tensioning device (1) from the knee joint gap (43),
- opushing the chosen oblique-cutting jig (57) into the two holes (56),
 - resecting the ventral oblique cut up to the mark (42),

and

resecting the dorsal oblique cut.